

said eccentric part having said reciprocating motion;
said connecting rod operably connects said eccentric part to said adjusting means; and
said connecting rod being effective to transfer said reciprocating motion to said adjusting means where by said slide operates through said cycle.

3. (Previously presented) A slide drive device, according to claim 2, wherein:
said adjusting means is operably affixed to said connecting rod;
said adjusting means is operable to guide said connecting rod along a specified trajectory;
and
said adjusting means is pivotable about said center position to adjust said specified trajectory whereby said stroke is adjusted.

4. (Withdrawn) A slide drive device, according to claim 3, further comprising:
said first and said second upper toggle means;
a rotation center in each said first and second upper toggle means;
said rotation center permitting said first and second upper toggle means to rotate in an arc;
a first link connects each said rotation center to said at least one drive branching link;
said at least one drive branching link effective to transfer said guiding displacement to each said first and second upper toggle link means;
a first and a second lower toggle link;
a second link operably connects each said rotation center to each respective said lower toggle link; and
said first and second upper toggle means being effective to transfer said guiding displacement through said second links to respective said first and second lower toggle links and said slide whereby said slide operates through said cycle while maintaining a left and right balance.

5. (Withdrawn) A slide drive device, according to claim 4, further comprising:

said trajectory forming link operably connecting said trajectory pin to said one end of said connecting rod; and

said trajectory pin, said trajectory forming link, and said adjusting means being effective to convert said reciprocating motion of said one end to an arc-shaped trajectory.

8. (Withdrawn) A slide drive device according to claim 6, wherein:

said adjusting means is operable at a position equidistant between said first and second upper toggle means;

said crank shaft and said eccentric part is below said adjusting means; and

said guide means is above said adjusting means opposite said crank shaft.

9. (Withdrawn) A slide drive device according to claim 6, further comprising:

a first and second dynamic balancer means;

a first and second retention link;

said first and second retention links operably connecting each respective said upper toggle means to each respective said dynamic balancer means; and

each said first and second dynamic balancer means and said first and second retention links having a shape and a weight adaptable to each respective said first and second upper toggle link and said slide whereby vibration is minimized when said first and second upper toggle means drive said slide in said cycle

10. (Withdrawn) A slide drive device, according to claim 5, further comprising:

a first pin in each said first and second upper toggle means;

said first links connects said first pins to each respective said rotation center on each said first and second upper toggle means; and

said at least one drive branching link operably connecting said first and second upper toggle means at said first pins on a common inner tangent line to each said arc.

11. (Withdrawn) A slide drive device, according to claim 10, further comprising:

said drive shaft and said adjusting means are below said first and second upper toggle means and said drive branching link.

15. (Withdrawn) A slide drive device, according to claim 12, further comprising:
said connecting link operably connects to said drive branching link at one of said first and second ends;
said drive shaft is below said first and second upper toggle means;
said adjusting means is above said first and second upper toggle means opposite said drive shaft; and
said guiding means is between said drive shaft and said adjusting means.

16. (Withdrawn) A slide drive device, according to claim 12, further comprising:
said connecting link operably connects to said drive branching link at one of said first and second ends;
said drive shaft above said first and second upper toggle means;
said adjusting means below said first and second upper toggle means opposite said drive shaft; and
said guiding means is between said drive shaft and said adjusting means.

17. (Currently amended) A slide drive device for a press machine having a slide, comprising:
means for adjusting said slide drive device;
one of a top and a bottom dead center position of said slide;
said adjusting means permitting adjustment of said slide;
said adjusting means permitting said adjustment without changing said one dead center position; and
said adjustment changing said other dead center position of said slide;
said adjusting means being pivotable to a specified angle to adjust a stroke of said slide;
and

said adjusting means transferring a sliding, reciprocating motion to said slide.

18. (Original) A slide drive device, according to claim 17, further comprising:
means for guiding said slide drive device;
at least one of a first and second upper toggle means;
said at least one upper toggle means driving said slide in a cycle; and
said guiding means being effective to transmit said adjustment to said one upper toggle
means whereby said stroke is adjusted without changing said other dead center position.

19. (Previously presented) A slide drive device, according to claim 18, further
comprising:
a center position on said adjusting means;
said center position being proximate said one dead center position;
said adjusting means being operable about said center position to effect said adjustment.

20. (Original) A slide drive device, according to claim 19, further comprising:
a connecting rod;
said connecting rod on said adjusting means;
said connecting rod receiving a reciprocating motion and transmitting said reciprocating
motion to said adjusting means;
a connecting link;
said connecting link on said adjusting means;
said connecting link being effective to transmit said reciprocating motion from said
adjusting means to said guiding means; and
said guiding means being effective to convert said reciprocating motion to a guiding
displacement, whereby said slide operates in said cycle.

21. (Original) A slide drive device, according to claim 20, further comprising:
at least one drive branching link;

a guide board in said adjusting means;
a groove in said guide board;
a slider being slidable in said groove;
a pin extending from said slider;
said groove and said pin being pivotable about said center position;
one end of a first and second end of said connecting rod;
said one end operably fixed to said pin; and
said slider and said pin being effective to transfer said reciprocating motion to said connecting link and said guiding means.

26. (Withdrawn) A slide drive device according to claim 1, further comprising:
a first and second dynamic balancer means;
a first and second retention link;
said first and second retention links operably connecting each respective said upper toggle means to each respective said dynamic balancer means; and
each said first and second dynamic balancer means and said first and second retention links having a shape and a weight adaptable to each respective said first and second upper toggle link and said slide whereby vibration is minimized when said first and second upper toggle means drive said slide in said cycle.

27. (Withdrawn) A slide drive device, according to claim 1, wherein said crank shaft and said adjusting means are above said first and second upper toggle means and said at least one drive branching link.

28. (Withdrawn) A slide drive device according to claim 1, further comprising:
a base in said guiding means;
a groove in said base;
said groove being along a centerline between each said upper toggle means;
a slider being slidable in said groove;

said connecting link operably connected to said slider;
said connecting link transferring said reciprocating motion to said slider whereby said slider operates along said centerline;
said at least one drive branching link operably connected to said slider; and
said at least one drive branching link and said slider transferring said guiding displacement to said first and second upper toggle means whereby said slide operates through said cycle while maintaining a left and right balance along said centerline.

29. (Withdrawn) A slide drive device according to claim 17, wherein:
said adjusting means is a single, shared adjusting means on which the motion of each of at least one drive branching link is dependent.

30. (Withdrawn) A slide drive device, according to claim 22, further comprising:
said first and said second upper toggle means;
a rotation center in each said first and second upper toggle means;
said rotation center permitting said first and second upper toggle means to rotate in an arc;
a first link connects each said rotation center to said at least one drive branching link;
a first and a second lower toggle link;
a second link operably connects each said rotation center to each respective said lower toggle link; and
said first and second upper toggle means being effective to transfer said guiding displacement through said second links to respective said first and second lower toggle links and said slide whereby said slide operates through said cycle while maintaining a left and right balance.

31. (Withdrawn) A slide drive device, according to claim 20, further comprising:
a guide board in said adjusting means;
a groove in said guide board;

a slider being slidable in said groove;
a pin extending from said slider;
said groove and said pin being pivotable about said center position;
one end of a first and second end of said connecting rod;
said one end operably fixed to said pin; and
said slider and said pin being effective to transfer said reciprocating motion to said connecting link and said guiding means.

32. (Withdrawn) A slide drive device according to claim 18, further comprising:

- a first and second dynamic balancer means;
- a first and second retention link;

said first and second retention links operably connecting each respective said upper toggle means to each respective said dynamic balancer means; and

each said first and second dynamic balancer means and said first and second retention links having a shape and a weight adaptable to each respective said first and second upper toggle link and said slide whereby vibration is minimized when said first and second upper toggle means drive said slide in said cycle.

33. (New) A slide drive device for a press machine having a slide, comprising:
an adjusting mechanism in said slide drive device;
one of a top and a bottom dead center position of said slide;
said adjusting mechanism permitting adjustment of said slide;
said adjusting mechanism permitting said adjustment without changing said one dead
center position;
said adjustment changing said other dead center position of said slide; and
said adjusting mechanism being pivotable about a center position to adjust a stroke of
said slide.

34. (New) A slide drive device, according to claim 21, wherein:

